

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 77-55

WASTEWATER RECLAMATION REQUIREMENTS FOR:

CITY OF PETALUMA  
SONOMA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, finds that:

1. The City of Petaluma, hereinafter producer, submitted a report of waste discharge dated February 25, 1977.
2. The producer proposes to establish a limited reclaimed wastewater distribution program. The uses of reclaimed wastewater include landscape irrigation of public parks, playgrounds and other public areas; roadway landscaping; dust control and soil compaction at public and private construction sites; street sweeping dust control; and sanitary sewer cleaning in the Petaluma area.
3. All wastewater will be picked up by tank truck and applied to the use area by spraying or surface spreading. All use will take place from the truck, water will not be injected into a fixed irrigation system. There will be no use on residential landscaping.
4. Section 13523 of the California Water Code provides that a regional board, after consulting with and receiving the recommendations of the State Department of Public Health, and if it determines such action to be necessary to protect the public health, safety, or welfare, shall prescribe water reclamation requirements for water which is used or proposed to be used as reclaimed water. The use of reclaimed water for the purposes specified in Paragraph 2 could affect the public health, safety, or welfare, and requirements for those uses are therefore necessary in accordance with the Water Code.
5. The Board adopted a Water Quality Control Plan for the San Francisco Bay Basin in April 1975. The water quality objectives for reclaimed wastewater, as set forth in the Basin Plan specify those limits prescribed in Title 17, Section 8025 through Section 8050, California Administrative Code. These objectives have been superceded by Title 22, Section 60501-60357, California Administrative Code (Statewide Reclamation Criteria).
6. The proposed use of reclaimed wastewater involves a minor alteration to land and as such is exempt from the provisions of the Environmental Quality Act of 1970 as a Class 4 exemption pursuant to Section 15104 of the California Administrative Code (State EIR Guidelines). The project will not have a significant effect on the environment.

7. The wastewater reclamation requirements are in conformance with the statewide reclamation criteria established by the State Department of Health and are in conformance with the Policy and Action Plan for Water Reclamation adopted by the State Water Resources Control Board in January 1977.
8. This Regional Board has notified the discharger, and interested agencies and persons of its intent to prescribe water reclamation requirements for the proposed uses.
9. This Board at a public meeting heard and considered all comments pertaining to this reuse.

IT IS HEREBY ORDERED, that the City of Petaluma, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Reclaimed Wastewater Use Specifications

1. The treatment, distribution or reuse of reclaimed water shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The reclaimed wastewater shall be at all times an adequately disinfected, oxidized water and shall meet the following quality limits at all times:

5-day BOD	40.0 mg/l, maximum
Dissolved Oxygen	1.0 mg/l, minimum
Dissolved Sulfide	0.1 mg/l, maximum
Coliform Organisms	Median MPN shall not exceed twenty-three (23) coliform organisms per 100 milliliters of sample at some point in the treatment process. The median value will be determined from the bacteriological results of the last seven (7) analyses.

3. All tank trucks and spray equipments which may at any time contain wastes shall be adequately and clearly identified with warning signs and producer and user shall make all necessary provisions, in addition, to inform the public that the liquid contained is sewage and is unfit for human consumption.
4. Conspicuous signs citing reclaimed wastewater use shall be posted on those reclaimed wastewater use areas where the public has unlimited access.

B. Reclaimed Wastewater Use Prohibitions

1. No wastewater shall be applied to the use areas during periods of rainfall or when soils are saturated.
2. No reclaimed wastewater used for irrigation shall be allowed to escape the specified use areas, either by surface flow or airborne spray.

3. No reclaimed wastewater shall be applied for uses not approved in this Order as listed in Finding No. 2, or on locations other than those approved by the producer. Wastewater shall not be applied for residential use.
4. No reclaimed wastewater used for irrigation shall be applied closer than 50 feet from picnic tables and other food and drinking water outlets.

C. Provisions

1. A licensing system and surveillance program shall be developed implemented and maintained by the producer for the control of trucking operations. Each truck driver issued a license must be instructed as to the requirements contained herein and the potential health hazards associated with the reuse of wastewater. Use of reclaimed wastewater shall not commence until the licensing and surveillance program has been established and approved by the Executive Officer of this Board.
2. This Order includes items numbered 1 through 8 of the attached "Standard Provisions for the Use of Reclaimed Water" dated March 15, 1973. The term "user" shall be replaced with "producer."
3. No reclaimed wastewater to be applied for the uses specified in this Order shall be dechlorinated.
4. The Board approves additional use locations and users for the categories of use specified in Finding 2, as reasonably authorized by the producer, subject to the limitations of this Order.
5. The Executive Officer may withdraw authorization for specific uses in the event that the terms and conditions of this Order are violated.
6. The producer is required to submit each month a report according to the schedule for sampling, measurement, and analysis given in Table I (attached). The attached monitoring summary report form shall be used and copies shall be submitted to the Board and the County Health Department. A list and map of users and use locations shall be submitted with this report and updated monthly. The report shall note those use locations with unlimited public access that have been posted with signs indicating that reclaimed wastewater is being used. The report shall contain a summary of surveillance activities conducted by the producer to monitor the hauling and application of wastewater including what observations were made and corrective actions taken regarding violations.
7. The producer shall not provide users with wastewater unless the truck driver presents an authorization issued by the City of Petaluma. Said authorization shall include user's name, driver's name, authorized uses and locations, and a summary of use restrictions as specified in this Order. This authorization shall be presented on request to the staff of the Regional Board.
8. The producer and users shall take all measures necessary to minimize public contact with reclaimed wastewater.

9. The producer is required to submit a summary report by the end of each calendar year to include the following:
- a. Locations at which and volume of reclaimed wastewater that has been applied for irrigation.
  - b. Construction projects which have benefited from the use of reclaimed wastewater.
  - c. Community acceptance, benefits and costs of the reclamation program.
  - d. Any adverse impacts of the program, including possible hazards to public health or degradation of ground or surface waters.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on **May 17, 1977**.

FRED H. DIERKER  
Executive Officer

Attachments:

Standard Provisions for the Use of  
Reclaimed Wastewater, dated 3/15/73  
Table I and monitoring summary form  
List of current users and locations

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

MARCH 15, 1973

STANDARD PROVISIONS  
FOR THE USE OF  
RECLAIMED WATER

1. This Board requests the user to take note of the comments and recommendations contained in all the correspondence the Board has received and considered concerning this matter, and the Executive Officer is directed to transmit copies of that correspondence to the user.
2. This Board considers "Waters of the State" as defined in Section 13050(e) of the California Water Code to include wastewaters over which the user has lost control.
3. The requirements prescribed herein do not authorize the commission of any act causing injury to the property of another, nor protect the user from his liabilities under Federal, State, or local laws, nor guarantee the user a capacity right in the receiving waters.
4. The discharge of any radiological, chemical, or biological warfare agent or high level radiological waste is prohibited.
5. The user shall file with the regional board technical reports on self-monitoring work performed according to detailed specifications as directed by the Executive Officer.
6. The user shall permit the Regional Board or its authorized representative:
  - a. Entry upon premises in which an effluent source is located or in which any required records are kept.
  - b. Access to copy any records required to be kept under terms and conditions of this order.
  - c. Inspection of any monitoring equipment or method required by this order.
  - d. Sampling of any discharge.
7. The user shall maintain in good working order and operate as efficiently as possible any facility or control system installed by the user to achieve compliance with the water reclamation requirements.
8. The user shall file with the regional board a report on waste discharge at least 180 days before making any material change or proposed change in the character, location or volume of reuse.

TABLE I  
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSES  
CITY OF PETALUMA

SAMPLING STATIONS	E-001 thru E-00'n <sup>1</sup>	Use Areas							
TYPE OF SAMPLES	G								
Reclaimed Wastewater Volume (gallons/day)	D <sup>2/</sup>								
Coliforms (MPN)	D <sup>2/</sup>								
Chlorine Residual (mg/l)	1/ 2/ 4H								
Dissolved Sulfide	W								
BOD (mg/l)	W								
Dissolved Oxygen	D								
Observations at selected use areas		W							

LEGEND

Type of Sample

G = grab sample  
O = observation

Frequency of Sampling

4H = every 4 hours  
D = daily  
W = once each week  
2W = every 2 weeks

Station

E-001  
thru  
E-00'n<sup>1</sup> = station(s) representative of  
treatment plant effluent  
being diverted for reclamation

1/ Samples shall be taken during working hours provided all tank trucks are filled during this period of time.

2/ Samples are required to be taken only on days any reclaimed wastewater is being diverted.

3/ Data shall be submitted on the attached monitoring summary form and a copy sent to the Regional Board and County Health Department.

MONITORING SUMMARY FOR WASTEWATER RECLAMATION

DISCHARGER: City of Petaluma (Truck Haul)

ORDER NO. 77-55

YEAR	FLOW	TOTAL COLIFORM		CHLORINE RESIDUAL	DO	BOD <sub>5</sub>	DISSOLVED SULFIDE	TURBIDITY
MONTH	TOTAL GALLONS RECLAIMED	MPN/100 ml	MPN/100 ml 7 DAY MEDIAN (23 MPN/100 ml)	mg/l DAILY MINIMUM	mg/l (1.0 mg/l min)	mg/l (40 mg/l max)	mg/l (0.1 mg/l max)	
DAY								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
MIN								
MAX								
AVE								



## CITY OF PETALUMA, *California*

POST AND ENGLISH STREETS 94952 • TELEPHONE (707) 763-2613

February 24, 1977

### A LIMITED RECLAIMED WASTEWATER DISTRIBUTION PROGRAM LIST OF USERS AND LOCATIONS

---

#### Portion of Exhibit "A" City of Petaluma Application

##### City Property

- C-1 Lucchesi Park
- C-2 Plantings along Southerly Side of East Washington Street between Creekside Creek and Ely Blvd. So.
- C-3 McDowell Park
- C-4 LaTecera Park
- C-5 Crinella Mini Park
- C-6 Miwok Park
- C-7 Lombardi Avenue Parkway
- C-8 Kenilworth - Carter Field
- C-9 Swim Center
- C-10 Library - Kenilworth Park
- C-11 Cherry Valley Park
- C-12 Oak Hill Park
- C-13 Bodega Bank
- C-14 Tunzi Parkway
- C-15 Stanley Street Park
- C-16 City Hall
- C-17 Five Corners Community Center
- C-18 Howard & Bassett Park
- C-19 Brown Court Park
- C-20 McNear Park
- C-21 Westridge Park
- C-22 Raymond Street Parkway
- C-23 Wichersham Park
- C-24 Walnut Park
- C-25 Old Library
- C-26 Center Park
- C-27 Jack Cavanagh Mooring & Landing Facilities
- C-28 Washington Street Plantings North and South Side between Water Street and Petaluma Blvd.
- C-29 Hill Plaza Park
- C-30 Shollenberger Park

##### School Property

- |     |                                 |                       |
|-----|---------------------------------|-----------------------|
| S-1 | Cherry Valley Elementary School | 1001 Cherry Street    |
| S-2 | Grant Elementary School         | 200 Grant Avenue      |
| S-3 | McDowell Elementary School      | 1425 McGregor Drive   |
| S-4 | McKinley Elementary School      | 110 Ellis Street      |
| S-5 | McNear Elementary School        | 605 Sunnyslope Avenue |



City of Petaluma  
A Limited Reclaimed Wastewater Distribution Program  
List of Users and Locations

S-7	Valley Vista Elementary School	730 N. Webster Street
S-8	Kenilworth Junior High School	998 E. Washington Street
S-9	Petaluma Junior High School	700 Bantam Way
S-10	Casa Grande High School	333 Casa Grande Road
S-11	San Antonio High School	500 Vallejo Street

Private Property

G-1      Golf Course

Construction Projects

City (all by private contractors)

Lucchessi Park

"I" Street reconstruction at Olive St

Wheelchair Ramp program---various locations

County (all by private contractors)

Carona Road P.M. 10.00/10.26

Lakeville Road P.M. 10.00/16.97

Maintenance Projects

City

street sweeping

sanitary sewer flushing and cleaning

County

various locations--dust control, compaction, grading, etc.

State

CALTRANS

various locations - dust control, compaction, grading, landscape watering, etc.